



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Laboratory of:

FoodChain ID Testing, LLC

**4150 Lafayette Center Drive, Suite 600, Chantilly, VA 20151
4170 Lafayette Center Drive, Suite 500, Chantilly, VA 20151**

*(Hereinafter called the Organization) and hereby declares that Organization is accredited
in accordance with the recognized International Standard:*

ISO/IEC 17025:2017

& Meets the Requirements of the AOAC International Guidelines for Laboratories Performing Microbiological and Chemical Analyses of Food and Pharmaceuticals-2018

This accreditation demonstrates technical competence for a defined scope and the
operation of a laboratory quality management system
(as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

Chemical and Biological Analysis of Foods and Animal Drug Residues *(As detailed in the supplement)*

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Tracy Szerszen
President
Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

Initial Accreditation Date:

May 11, 2010

Issue Date:

November 29, 2022

Expiration Date:

January 31, 2025

Accreditation No.:

67126

Certificate No.:

L22-799

*The validity of this certificate is maintained through ongoing assessments based on a
continuous accreditation cycle. The validity of this certificate should be
confirmed through the PJLA website: www.pjilabs.com*



Certificate of Accreditation: Supplement

FoodChain ID Testing, LLC

4150 Lafayette Center Drive, Suite 600, Chantilly, VA 20151
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Contact Name: Thomas Scott Phone: 703-222-8700

Accreditation is granted to the facility to perform the following testing:

4150 Lafayette Center Drive, Suite 600, Chantilly, VA 20151

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Chemical and Environmental ^F	Wheat, Liver, and Kidney; Food and Food Products; Feed and Feed Products: Animal and Animal Products	Pesticides and Polychlorinated Biphenyls (PCBs)	USDA (FSIS) CLG – HEC1 GC-ECD	0.01 µg/g to 1 µg/g
			USDA (FSIS) CLG – HEC1 GC-NPD	
			USDA (FSIS) CLG – PST4 GCMS	
		Sulfonamides	USDA (FSIS) CLG – SUL4 LCMSMS	
	Feed and Feed Products; Food and Food Products; Animal and Animal Products, Dietary Supplements	Comprehensive Pesticide Screen (550+ Pesticides)	USP<561>/CLG_PST5 LCMSMS/GCMSMS	0.01 mg/kg to 1 mg/kg
	Food and Food Products; Feed and Feed Products	Glyphosates and AMPA	J. Agric. Food Chem. (2015) 63, 48,10562-10568. LCMSMS	0.05 mg/kg to 1 mg/kg
	Food and Food Products; Feed and Feed Products	Residual Solvents	FID_SOP_RSO GC Headspace/FID/MS	10 µg/mL to 1 000 µg/mL
	Food and Food Products; Feed and Feed Products	Mycotoxins	FDA Method Version 1.0 (2017) LCMSMS	0.01 ng/mL to 100 ng/mL
	Food and Food Products, Feed and Feed Products, Plant and Plant material, Dietary Supplements	Heavy Metals	USP<233> / AOAC 2015.01 / FDA Version 1.0 (Jan 2017)	0.01 mg/kg to 1.0mg/kg
	Fruits, Teas, Juices, Food Crops	Dithiocarbamates (as CS2)	JPESTSCI_2017_145-50_DTC	0.50 ug/kg to 10.00 µg/kg



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Chemical and Environmental ^F	Food and Food Products Feed and Feed Products	Quaternary Ammonium Compounds	EUR-SRM Version 4.1 AOAC 2007.01	0.050 to 50.00 mg/kg
	Dietary Supplements Food and Food Products Feed and Feed Products Hemp and Hemp Products Cannabis Plant Cannabis Infused Products Cannabis Concentrates Cannabis Oils Cannabis Edibles	Pesticides: Acephate (Orthene) Alachlor Aldrin alpha-BHC alpha-Chlordane Azinphos-ethyl Azinphos-methyl (Gluthion) Bromophos ethyl Bromophos methyl Bromopropylate Chlorfenvinphos Chlorpyrifos (Dursban) Chlorpyrifos - Methyl Chlorthal-Dimethyl (Dacthal) Cyfluthrin (Sum) Cyhalothrin-Lambda Cypermethrin (Sum) delta-BHC Deltamethrin Diazinon Dichlofluanid Dichlorvos (DDVP) Dicofol-o, p' Dieldrin Dimethoate (Cygon) Endosulfan I Endosulfan II Endosulfan sulfate Endrin Ethion Etrimphos	USP <561>; USP Articles of Botanical Origin, Chemical Test. General method for pesticide residue analysis. First supplement to USP 38-NF 33. pp 10-14. LCMSMS/GCMSMS	0.005 µg/mL to 0.5 µg/mL



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Chemical and Environmental ^F	Dietary Supplements Food and Food Products Feed and Feed Products Hemp and Hemp Products Cannabis Plant Cannabis Infused Products Cannabis Concentrates Cannabis Oils Cannabis Edibles	Pesticides: Fenclorphos (Ronnel) Fenclorphos-Oxon Fenitrothion Fenthion-oxon sulfone Fenthion-oxon sulfoxide Fenvalerate Flucythrinate Fluvalinate Fonofos (Dyfonate) gamma-BHC (Lindane) gamma-Chlordane Heptachlor (Sum) Heptachlor epoxide (trans-isomer A) Hexachlorobenzene (HCB) Malathion Malaoxon (Malathion OA) Mecarbam Methacrifos Methamidophos Methidathion (Supracide) Methoxychlor Mirex Monocrotophos o,p'-DDD o,p'-DDE o,p'-DDT Omethoate Oxychlordane p,p'-DDD (TDE) p,p'-DDE p,p'-DDT Parathion Parathion Methyl	USP <561>; USP Articles of Botanical Origin, Chemical Test. General method for pesticide residue analysis. First supplement to USP 38-NF 33. pp 10-14. LCMSMS/GCMSMS	0.005 µg/mL to 0.5 µg/mL



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Chemical and Environmental ^F	Dietary Supplements Food and Food Products Feed and Feed Products Hemp and Hemp Products Cannabis Plant Cannabis Infused Products Cannabis Concentrates Cannabis Oils Cannabis Edibles	Pesticides: OA Parathion OA Parathion-Methyl Pendimethalin (Prowl) Pentachloroanisole (PCA) Pentachloroaniline Methyl pentachlorophenyl sulfide (MPCPS) Permethrin (Pounce) Phosalone (Zolone) Phosmet (Imidan) Piperonyl Butoxide Pirimiphos-ethyl Pirimiphos-methyl N-Desethyl-Pirimiphos-methyl Procymidone Profenophos (Curacron) Prothiofos (Tokuthion) Pyrethrins Quinalphos Quintozene (PCNB) (Sum)S-421 Tecnazene Tetradifon (Tedion) Vinclozolin (Ronilan)	USP <561>; USP Articles of Botanical Origin, Chemical Test. General method for pesticide residue analysis. First supplement to USP 38-NF 33. pp 10-14. LCMSMS/GCMSMS	0.005 µg/mL to 0.5 µg/mL
	Cannabis Plant Cannabis Infused Products Cannabis Concentrates Cannabis Oils Cannabis Edibles Hemp and Hemp Products	Residual Solvents: Acetone Acetonitrile Benzene Butane Chloroform 1,2-Dichloroethane Ethanol	FID_SOP_RSO GC Headspace/FID/MS	10 µg/mL to 1 000 µg/mL



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Chemical and Environmental ^F	Cannabis Plant Cannabis Infused Products Cannabis Concentrates Cannabis Oils Cannabis Edibles Hemp and Hemp Products	Residual Solvents: Ethylene oxide Ethyl ether Ethyl acetate Heptane n-Hexane Isopropyl Alcohol Methanol Methylene Chloride n-Pentane Propane Toluene Trichloroethylene TotalXylenes(m/p/o)	FID_SOP_RSO GC Headspace/FID/MS	10 µg/mL to 1 000 µg/mL
		Terpenes: (-)-alpha-Bisabolol Camphene delta-3-Carene beta-Caryophyllene (-)-Caryophyllene oxide 1,8-Cineole (Eucalyptol) p-Cymene Geraniol (-)-Guaiol alpha-Humulene (-)-Isopulegol d-Limonene Linalool beta-Myrcene Nerolidol (Z, E)-beta-Ocimene (±)-alpha-Pinene (-)-beta-Pinene alpha-Terpinene gamma-Terpinene Terpinolene	FID_SOP_TERPENES GC Headspace/FID/MS	10 µg/mL to 2 500 µg/mL



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Chemical and Environmental ^F	Cannabis Plant Cannabis Infused Products Cannabis Concentrates Cannabis Oils Cannabis Edibles Hemp and Hemp Products Food and Food Products Feed and Feed Products	CBD Potency/ Cannabinoids: CBD CBDA THCA Δ9 THC Δ8 THC CBDV CBDVA THCV CBG CBGA CBN CBC	HPLC_SOP_CBD HPLC/VWD	0.5 mg/mL to 100 mg/mL
		Mycotoxins: Aflatoxins B1 Aflatoxins B2 Aflatoxins G1 Aflatoxins G2 Ochratoxin A	FDA Method Version 1.0 (2017) LCMSMS	0.01 ng/mL to 100 ng/mL
Commercial Fats and Oils; Food Products		Moisture	AOCS Ca 2c-25	0.01% to 100%
		Insoluble Matter	AOCS Ca 3a-46	0.01% to 100%
		Free Fatty Acid	AOCS Ca 5a-40	0.01% to 100%
		Unsaponifiable Matter	AOCS Ca 6b-53	0.01% to 100%
		Titer	AOCS Cc 12-59	0.01% to 100%
		Chick Edema Factor CEF Dioxins	AOAC 968.23	0.004 mg/g to 0.1 mg/g
		Antioxidants	Anal. Bioanal. Chem. 386,1881 (2006)	0.01 mg/g to 0.15 mg/g
		Animal Drug Residues	USDA CLG_MRM3, Modified	0.01 mg/kg to 1 mg/kg
		Fatty Acid Composition	AOCS Method Ce-1b- 89, Modified	0.1 % to 100 %



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Chemical and Environmental ^F	Food and Food Products, Feed and Feed Products, Plant and Plant material, Dietary Supplements Cannabis Plant Cannabis Infused Products Cannabis Concentrates Cannabis Oils Cannabis Edibles Hemp and Hemp Products	Heavy Metals Arsenic Cadmium Lead Mercury	USP<233> / AOAC 2015.01 / FDA Version 1.0 (Jan 2017)	0.01 mg/kg to 1.0 mg/kg
	Food and Food Products, Feed and Feed Products	Proteins	AOAC 990.03	0.01 % to 100%
	Food and Feed Products	Crude Fat Percent	AOCS Am 5-04	0.01% to 100%
	Commercial Fats and Oils, Feed and Feed Products	Residue Determination by Incineration	AOCS Method Ca 11-55 / AOAC 945.05	0.01% to 100%
	Commercial Fats and oils: Food and Food Products, Feed and Feed Products	Pentobarbital	FDA C-005.03	3.60 ug/kg to 100 00 ug/kg
	Rendered Fats, Tissue Fats, Fresh Produce	Quecher Extraction & Cleanup	EPA 3510C Mod	NA
	Aqueous		EPA 3550C Mod	
	Dry Material & Solids		EPA 3580C Mod	
	Rendered Fats, tissue Fats, Fresh Produce		PAM 304.E1	
	Fats		Extraction	
Rendered Fats, tissue Fats, Fresh Produce, Dry Material & Solids	Alumina Cleanup Florisisl Cleanup	PAM 302.C5		



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Biological ^F	Food and Food Products Dietary Supplements, Feed and Feed Products, Plant and Plant Products, Animal and Animal Products	Animal and Plant Species Identification by Real Time PCR	LP 06A-M, V, X, & Z
		Detection of Barley, Bison B. bison, Bovine, Catfish Ictalurus punctatus, Chicken/Turkey, Chicken, Duck/Goose, Goat, Grouper Epinephelus coioides, Horse, Ovine, Porcine, Rabbit, Red Snapper, Lutjanus campechanus, Ruminant, Salmon, Salmo salar, Turkey, Wheat	
		Qualitative GMO DNA (Plant and Animal) Analytical Procedures by Real Time PCR	LP 06A-M, V, X, & Z
		Detection of GM Alfalfa, Canola, Corn, Cotton, Flax, Papaya, Potato, Rice, Salmon, Soy, Sugar Beet, Tobacco, Tomato, Zucchini/Squash	
		Quantitative GMO DNA Analytical Procedures by Digital PCR	
Quantitative GMO DNA Analytical Procedures by Real Time PCR	LP 06A-M, V, X, & Z		
Detection of GM Alfalfa, Canola, Corn, Cotton, Flax, Papaya, Potato, Rice, Salmon, Soy, Sugar Beet, Zucchini/Squash			
		Immunoassay by ELISA and PCR for Gluten, Gliadin, Plant, Vegan, Vegetarian, and Allergen	AOAC 2012.01 LP 14A; LP 14B; LP 02C; LP 03A
		Detection of Gluten/Gliadin, Egg, Milk, Lactose, and Allergens	



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Biological ^F	Food and Food Products Dietary Supplements, Feed and Feed Products, Plant and Plant Products, Animal and Animal Products	Sample Preparation, DNA Extraction, Purification, Quantification, PCR Amplification, Assays and Analysis	LP 01A, B & C; LP 02C; LP 03C & F; LP 05A, B, C, & E
		Proprietary SOPs for Primer Prep	LP 10B LP 06E GM Tomato Primers LP 06G GM Rice Primers LP 06H GM Papaya Primers LP 06I GM Zucchini Primers LP 06J GM Sugar Beet Primers LP 06K GM Tobacco Primers LP 06X Screening Primers
Microbiological ^F	Food and Food Products Dietary Supplements, Feed and Feed Products, Plant and Plant Products, Animal and Animal Products	3M TM Molecular Detection Assay 2 – Salmonella	3M MDS; AOAC – OMA #2016.01; LP 11G5 Pass/Fail
		3M TM Petrifilm TM Enterobacteriaceae Count Plate for All Food	Official Method – AOAC 2003.01; LP 11E7 D.L. = 10 CFU/g

1. The presence of a superscript F means that the laboratory performs calibration of the indicated parameter at its fixed location. Example: Outside Micrometer^F would mean that the laboratory performs this calibration at its fixed location.
2. Accreditation is granted through technology based flexible scope criteria for biological and microbiological. Additional methods other than listed above may fall under the accreditation of the laboratory. A complete listing of method capabilities can be derived from the laboratory upon request.